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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An operation system for a joint prosthesis, in particular a shoulder joint prosthesis, having two cooperating bearing bodies (11, 102), in particular a joint head (11) and a joint shell (102), a shaft (15) and a coupling (17) to connect the shaft (15) to one of the bearing bodies (11), comprising

- a positioning device by means of which the shaft (15) can be positioned at a desired depth in the bone (19) without a coupling (17);

- a pre-fixing device by means of which the desired position of the bearing body (11) relative to the coupling (17) can be pre-fixed at the shaft (15) positioned at the desired depth; and

- a final fixing device by means of which, with the coupling (17) removed from the shaft (15), the pre-fixed desired position can be finally fixed.

2. (Currently Amended) An operation system in accordance with claim 1, characterized in that wherein the coupling (17) for connection to the shaft (15) includes a clamping section (21) with which a firm clamped seating of the

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coupling (17) in the shaft (15) can be established by hammering into a coupling mount (23) of the shaft (15).

3. (Currently Amended) An operation system in accordance with claim 2, ~~characterized in that~~ wherein the clamping section (21) tapers conically and can be hammered into a correspondingly shaped coupling mount (23) of the shaft (15), with the clamping section (21) ~~preferably~~ having an outer cross-section, ~~in particular an elliptical outer cross section,~~ different from a circular shape.

4. (Currently Amended) An operation system in accordance with claim 1, ~~characterized in that~~ wherein the positioning device has a bearing section (31) fixable to the shaft and at least one positioning element (35) mounted pivotally and rotatably at the bearing section (31) and axially immovable in the direction of a longitudinal axis (33) relative to the bearing section (31) with a lower side (37) which faces the shaft (15), which serves as a depth stop and can be brought into all orientations coming into question for the bearing body (11) relative to a prepared planar upper side (25) of the bone (19) by pivoting and/or rotating of the positioning element (35) relative to the bearing section (31).

5. (Currently Amended) An operation system in accordance with claim 4, ~~characterized in that~~ wherein the bearing section (31) of the positioning device is made as a spherical bearing, with the center of the spherical bearing and the lower side (37) of the positioning element (35) being matched to one another with respect to their relative axial

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position such that, with the shaft (15) positioned at the desired depth and the bearing section (31) fixed to the shaft (15), the position of the center of the spherical bearing coincides with the desired position of the center of a spherical bearing section (27) of the coupling (17).

6. (Currently Amended) An operation system in accordance with claim 4, ~~characterized in that~~ wherein the positioning element (35) corresponds at least approximately to the bearing body (11) with respect to the shape and to the size of its planar lower side (37) and to the position, in particular to the eccentric position, of a mount (39) opening at the lower side (37).

7. (Currently Amended) An operation system in accordance with claim 4, ~~characterized in that~~ wherein the positioning element (35) is provided in the form of an annular disk.

8. (Currently Amended) An operation system in accordance with claim 4, ~~characterized in that~~ wherein a plurality of positioning elements (35) are provided which differ from one another with respect to the shape and to the size of their planar lower sides (37) and to the position, ~~in particular~~ the eccentric position, of a mount (39) opening at the lower side (37).

9. (Currently Amended) An operation system in accordance with claim 4, ~~characterized in that~~ wherein the positioning element (35) has at least one pressing screw which can be brought from a neutral position into a pressure position

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projecting from the lower side (37) of the positioning element (35) to press the positioning element (35) from the upper side (25) of the bone (19).

10. (Currently Amended) An operation system in accordance with claim 4, ~~characterized in that~~ wherein the bearing section (31) of the positioning device has a coupling section (43) which is insertable into a coupling mount (23) of the shaft (15) and which has an outer shape matched to the inner cross-sectional shape of the coupling mount (23) differing from a circular shape to align the positioning device relative to the shaft (15).

11. (Currently Amended) An operation system in accordance with claim 4, ~~characterized in that~~ wherein a transition is formed as a supporting and sealing area (45) between the bearing section (31) and the coupling section (43) of the positioning device, said supporting and sealing area contacting the shaft (15) when the bearing section (31) is fixed to the shaft (15) and sealing the interior of the shaft with respect to the environment.

12. (Currently Amended) An operation system in accordance with claim 4, ~~characterized in that~~ wherein the bearing section (31) can be fixed to the shaft (15) by means of a clamping device (47) of the positioning device, with the clamping device (47) cooperating with an existing internal thread (29) formed in a coupling mount (23) of the shaft (15).

13. (Currently Amended) An operation system in accordance with claim 4, ~~characterized in that~~ wherein the

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bearing section (31) is provided with a cylindrical surface region (49) to attach the positioning element (35).

14. (Currently Amended) An operation system in accordance with claim 13, ~~characterized in that~~ wherein the center axis of the cylindrical surface region (49) has an inclination with respect to a longitudinal axis (33) of the bearing section (31) which is outside a zone of inclinations which the positioning element (35) can adopt during the shaft positioning.

15. (Currently Amended) An operation system in accordance with claim 1, ~~characterized in that~~ wherein the pre-fixing device includes a support member (51) which can be axially fixed in a coupling mount (23) of the shaft (15) and serves in the fixed state as an end stop for a clamping section (21) of the coupling (17) which can be secured in the coupling mount (23) by hammering in, with the support member (51) preferably being matched to the dimensions of the shaft (15) and of the damping section (21) such that the support member (51) intercepts the clamping section (21) at a pre-fixing depth allowing a simple removal of the coupling (17) before reaching a desired depth required for the securing.

16. (Currently Amended) An operation system in accordance with claim 15, ~~characterized in that~~ wherein the support member (51) can be axially fixed by screwing into the shaft (15) while utilizing an existing internal thread (29) formed in the coupling mount (23) of the shaft (15).

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17. (Currently Amended) An operation system in accordance with claim 15, ~~characterized in that~~ wherein the pre-fixing device includes a compensation member (53) which can be brought between the bone (19) and the bearing body (11) to compensate the difference between the desired depth and the pre-fixing depth and is made such that an alignment of the lower side (13) of the bearing body (11) parallel to the upper side (25) of the bone (19) is ensured.

18. (Currently Amended) An operation system in accordance with claim 17, ~~characterized in that~~ wherein the compensation member (53) is provided in the form of a spring disk which is ~~preferably~~ made in one piece and/or ~~preferably~~ includes a plurality of spring tongues projecting from a base plate (55).

19. (Currently Amended) An operation system in accordance with claim 1, ~~characterized in that~~ wherein the pre-fixing device includes a spreading element (59), ~~in particular a conical spreading element,~~ which can be introduced into a spreadable spherical bearing section (27) of the coupling (17) and can be driven, for the pre-fixing spreading of the spherical bearing section (27), into said spherical bearing section (27) by hammering the coupling (17) into the shaft (15) - with the bearing body arranged on its spherical bearing section (27) - by means of the support member (51) axially fixed in the shaft (15).

20. (Currently Amended) An operation system in accordance with claim 1, ~~characterized in that~~ wherein the final

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fixing unit includes a clamping apparatus (71) to clamp the bearing body (11) pre-fixed at the coupling (17) between a an ~~preferably axially~~ adjustable holding member (73) and a ~~preferably axially~~ fixed supporting member (75) as well as a driving tool with which a spreading element (59) pre-fixing the bearing body (11) can be driven into a final fix position to finally fix the bearing body (11) when the bearing body (11) is clamped in.

21. (Currently Amended) An operation system in accordance with claim 20, ~~characterized in that~~ wherein the driving tool to drive in the spreading element (59) while using an existing internal thread (22) formed in a clamping section (21) of the coupling (17) can be screwed into the clamping section (21), with the final fixing position of the spreading element (59) ~~preferably~~ being pre-determined by a specific screw-in torque of the driving tool.

22. (Currently Amended) An operation system in accordance with claim 20, ~~characterized in that~~ wherein the support member (75) has a supporting surface (77) for the lower side (12) of the bearing body (11) and a throughgoing receiving passage (79) for a clamping section (21) of the coupling (17) via which the clamping section (21) is accessible to the driving tool, on the one hand, and which is made as a rotational security for the coupling (17) due to its internal cross-section matched to the outer cross-section of the clamping section (21) differing from a circular shape, on the other hand.

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23. (Currently Amended) An operation system in accordance with claim 22, ~~characterized in that~~ wherein the support surface (77) of the support member (75) is inclined with respect to a longitudinal axis (81) of the final fixing device in accordance with the inclination of the bearing body (11) relative to a longitudinal axis (33) of the coupling (17).

24. (Currently Amended) An operation system in accordance with claim 20, ~~characterized in that~~ wherein the final fixing device includes two base plates (85, 87) held at a fixed axial spacing by a plurality of connection columns (83), with the holding member (73) being supported at the one base plate (85) and the support member (75) being supported at the other base plate (87).

25. (Currently Amended) An operation system in accordance with claim 1, ~~characterized in that it includes which also comprises~~ a hammer tool (91) with which hammer impulses can be applied to the bearing body (11) arranged on ~~the~~ a spherical bearing section (27) of the coupling (17) to hammer the coupling (17) into the shaft (15), with the magnitude of a hammer impulse to be applied in each case being pre-settable, and in particular changeable, at the hammer tool (91).

26. (Currently Amended) A method of inserting ~~a joint prosthesis, in particular~~ a shoulder joint prosthesis, which has two cooperating bearing bodies (11, 102), in particular a joint head (11) and a joint shell (102), as well as a shaft (15) and a coupling (17) to connect the shaft (15) to one of the bearing bodies (11), ~~in which comprising~~

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- positioning the shaft (15) ~~is positioned~~ at a desired depth in the bone (19) without a coupling (17) ~~by means of a positioning device~~;

- pre-fixing the desired position of the bearing body (11) relative to the coupling (17) ~~is pre fixed to the shaft (15) positioned at the desired depth by means of a pre fixing device~~; and

- finally fixing the pre-fixed desired position ~~is finally fixed by means of a final fixing device with the coupling (17) removed from the shaft (15)~~.

27. (Currently Amended) A method in accordance with claim 26, ~~characterized in that also comprising~~, for the positioning of the shaft (15) in the bone (19), selecting a matching positioning element (35) ~~is selected~~ with reference to a piece of bone previously separated from the bone (19) ~~for the preparation thereof from a plurality of positioning elements (35) of the positioning device which differ from one another with respect to the shape and to the size of their planar lower sides (37) and to the position, in particular the eccentric position, of a mount (39) opening at the lower side (37), said positioning element (35) corresponding at least approximately to the bearing body (11) with respect to the shape and to the size of its lower side (37) and to the position, in particular the eccentric position, of its mount opening at the lower side (37)~~.

28. (Currently Amended) A method in accordance with claim 27, ~~characterized in that also comprising, attaching~~ the selected positioning element (35) ~~is attached~~ to a bearing

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section (31) ~~of the positioning device~~ in a pivotal and rotatable manner and axially unmovable in the direction of a longitudinal axis (33) relative to the bearing section (31).

29. (Currently Amended) A method in accordance with claim 28, ~~characterized in that also comprising, fixing~~ the bearing section (31) carrying the selected positioning element (35) ~~is fixed~~ to the shaft (15) by means of a clamping device (47) ~~of the positioning device~~, with the clamping device (47) cooperating with an existing internal thread (29) formed in a coupling mount (23) of the shaft (15).

30. (Currently Amended) A method in accordance with claim 29, ~~characterized in that also comprising, introducing~~ the shaft (15) connected to the bearing section (31) carrying the selected positioning element (35) ~~is introduced~~ into a prepared cavity of the bone (19) and ~~is brought~~ into a desired position, ~~in particular into a desired depth,~~ in the bone (19) which is determined in that the lower side (37) of a positioning element (35) supported pivotally and rotatably, but axially unmovably at the bearing section (31) aligns at a prepared upper side (25) of the bone (19) in an orientation corresponding to the desired orientation of the bearing body (11) to be coupled to the shaft (15).

31. (Currently Amended) A method in accordance with claim 30, ~~characterized in that wherein~~ the shaft (15) is definitively fixed in its desired position in the bone (19) by cementing in or by hammering in.

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32. (Currently Amended) A method in accordance with claim 31, ~~characterized in that~~ wherein the bearing section (31) and the positioning element (35) are removed from the shaft (15) and from the bone (19), with the positioning element (35) ~~preferably~~ being pressed from the upper side (25) of the bone (19) by actuation of pressing screws which can be brought from a neutral position into a pressure position projecting from the lower side (37) of the positioning element (35).

33. (Currently Amended) A method in accordance with claim 26, ~~characterized in that~~, wherein, to pre-fix the desired position of the bearing body (11) relative to the coupling (17), a support member (51) ~~of the pre fixing device~~ is axially fixed in a coupling mount (23) of the shaft (15), ~~in particular~~ by being screwed into the shaft (15) while utilizing an existing internal thread (29) formed in the coupling mount (23) of the shaft (15).

34. (Currently Amended) A method in accordance with claim 33, ~~characterized in that~~ wherein a spreading element (59), ~~in particular a conical spreading element, of the pre~~ ~~fixing device~~ is introduced into a spreadable spherical bearing section (27) of the coupling (17), with the spreading element (59) ~~preferably~~ being brought into a pre-determined starting position in which the spherical bearing section (27) of the coupling (17) is slightly spread ~~in particular~~ by means of a plunger having a depth stop; and in that the bearing body (11) is placed onto the spherical bearing section (27) of the coupling (17) in a pivotal and rotatable manner.

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35. (Currently Amended) A method in accordance with claim 34, ~~characterized in that the~~ wherein a clamping section (21), ~~in particular the conical clamping section,~~ of the coupling (17) carrying the pivotal and rotatable bearing body (11) is inserted into the coupling mount (23) of the shaft (15) containing the axially fixed support member (51), with the support member (51) being matched to the dimensions of the shaft (15) and of the clamping section (21) such that the clamping section (21) is intercepted by the support member (51) at a pre-fixing depth allowing a removal of the coupling on insertion into the coupling mount (23) before reaching a desired depth required for its securing in the shaft (15).

36. (Currently Amended) A method in accordance with claim 35, ~~characterized in that~~ wherein, before the introduction of the clamping section (21) of the coupling (17) into the coupling mount (23) of the shaft (15) to compensate the difference between the desired depth and the pre-fixing depth, a compensation member (53) of the pre-fixing device is brought between the bone (19) and the bearing body (11).

37. (Currently Amended) A method in accordance with claim 35, ~~characterized in that~~ also comprising, applying a hammer impulse of pre-determined magnitude ~~is applied~~ to the bearing body such that the spreading element (59) previously introduced into the spherical bearing section (27) of the coupling (17) is driven further into the spherical bearing section (27) by the support member (51) axially fixed in the shaft (15) and the spherical bearing section (27) is thereby spread open so widely that the bearing body (11) is pre-fixed in

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its desired position relative to the coupling (17), with an alignment of the lower side (13) of the bearing body (11) parallel to the upper side (25) of the bone (19) being ensured by the compensation member (53) previously brought between the bone (19) and the bearing body (11).

38. (Currently Amended) A method in accordance with claim 37, ~~characterized in that~~ wherein the bearing body (11) supported pivotally and rotatably at the spherical bearing section (27) of the coupling (17) is brought into its desired position relative to the bone (19) by alignment at the bone (19) before the application of the hammer impulse to the bearing body (11).

39. (Currently Amended) A method in accordance with claim 26, ~~characterized in that~~ wherein, to finally fix a pre-fixed desired position of the bearing body (11) relative to the coupling (17), the bearing body (11) is clamped between a holding member (73) and a support member (75) of a final fixing device and ~~the a~~ spreading element (59) pre-fixing the bearing body (11) is further driven into ~~the a~~ spreadable spherical bearing section (27) of the coupling (17) into a pre-determined finally fixed position by means of a driving tool, with the driving tool ~~preferably~~ being screwed into ~~the a~~ clamping section (21) utilizing an internal thread (22) formed in the clamping section (21) of the coupling (17).

40. (Currently Amended) A method in accordance with claim 39, ~~characterized in that~~ wherein the clamping section

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(21) is secured against rotation during the driving in of the spreading element (59) by means of the support member (75).

41. (Currently Amended) A method in accordance with claim 26, ~~characterized in that the~~ also comprising, removing a support member (51) ~~is removed from the~~ a coupling mount (23) of the shaft (15), ~~the inserting~~ a clamping section (21) of the coupling (17) carrying the finally fixed bearing body (11) ~~is inserted~~ into the coupling mount (23) of the shaft (15) and applying a hammer impulse of pre-determined magnitude ~~is applied~~ to the bearing body (11) such that the clamping section (21) is hammered into the finally firm clamped seating in the coupling mount (23) and the bearing body (11) is brought into its desired position relative to the bone (19).

42. (Currently Amended) A method in accordance with claim 35, ~~characterized in that~~ wherein on the introduction of the clamping section (21) into the shaft (15), both for the pre-fixing and for the establishing of the final clamped seating, an elliptical cross-section of the clamping section (21) is aligned relative to the coupling mount (23) of the shaft (15) in its plane such that the large ellipse axis appears as a perpendicular in a projection toward lateral.

43. (Currently Amended) A method ~~in accordance with~~ claim 26, characterized in that of inserting a joint prosthesis comprising, using an operation system in accordance with any one ~~of claims~~ claim 1 to 25 ~~is used.~~